

Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89

⊕ EPA-OTS

0006556800

90-890000447

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt: _____

Document
Control Number:

Docket Number: ____

PART	A (GENERAL REPORTING INFORMATION
1.01	Thi	is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	con	mpleted in response to the <u>Federal Register</u> Notice of $[\overline{I}]$ $[\overline{A}]$ $[\overline{A}]$ $[\overline{A}]$ $[\overline{B}]$
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance
		Name of chemical substance
1.02	Ide	entify your reporting status under CAIR by circling the appropriate response(s)
<u>CBI</u>	Mar	nufacturer
[_]	Imp	porter
	Pro	ocessor
	X/E	P manufacturer reporting for customer who is a processor
	X/E	P processor reporting for customer who is a processor

1.03	Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice?
(<u> </u>	Yes
1.04	a. Do you manufacture, import, or process the listed substance and distribute it
<u>CBI</u>	under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.
[_]	No2
	b. Check the appropriate box below:
	[_] You have chosen to notify your customers of their reporting obligations Provide the trade name(s)
	Provide the trade name(s)
	[] You have chosen to report for your customers
	You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.
1.05	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.
<u>CBI</u>	Trade name LUPRANATE T80- TYPE 1
()	Is the trade name product a mixture? Circle the appropriate response.
	Yes 1
	No
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:
<u>CBI</u>	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate"
	RAYMOND L OSBORNE SOLFMAN LULOUNE DATE SIGNED
. (CORPORATE ENUIRONMENTAL 404) 349 - 7000 TELEPHONE NO.
[_]	Mark (X) this box if you attach a continuation sheet.

, T , C

1.07 <u>CBI</u> []	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.				
	"I hereby certify that, to the binformation which I have not income to EPA within the past 3 years a period specified in the rule."	cluded in	this CAIR Reporting Fo	rm has been submitted	
		N	A		
	NAME	71,	SIGNATURE	DATE SIGNED	
	TITLE	(TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION	
1.08 <u>CBI</u> []	CBI Certification If you have certify that the following state those confidentiality claims who "My company has taken measures and it will continue to take the been, reasonably ascertainable using legitimate means (other that judicial or quasi-judicial preinformation is not publicly available would cause substantial harm to	ements trick you he to protect to be meast by other han disconceeding ilable e	ruthfully and accurately have asserted. It the confidentiality oures; the information is persons (other than govovery based on a showing) without my company's clsewhere; and disclosure	of the information, anot, and has not vernment bodies) by g of special need in consent; the	
			N/Ø		
	NAME		SIGNATURE	DATE SIGNED	
	TITLE	(

PART :	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name $[D]O[U]C[L]A[S] = [A]S[U]A[S[U]A[S[U]A[S[U]A[S[U]A[S[U]A[S[U]A[A[A[A[A[A[A]A[A[A[A[A[A[A[A[A[A[A[A$
[_]	Address [][][][][][][][][][][][][][][][][][][
	[HIA]VIRIEI_IdIeI_IBIRIAICIEI_I_I_I_I_I_I_I_I_I_I_I
	[<u>M]页] [図]7]图][0]310</u>] <u>多</u>] State
	Dun & Bradstreet Number
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code $[3]\overline{2}$
	0ther SIC Code
	Other SIC Code[_]_]_]_]
1.10	Company Headquarters Identification
CBI	Name $[D]O]U]O]L]A S]]I] I] [D]M]A]S]O]N] [C]O]M]PA[V]V]$
[_]	Address [2]4]6]0]0]]用[用][2][1][0][0][0][0][0][0][0][0][0][0][0][0][0]
	[F]]][]][]][]][]][]][]][]][][]][][][][]
	[<u>M]工</u>] [4] <u>B]3]3][][4]5]0]<u>B</u> State</u>
	Dun & Bradstreet Number[<u>ठ]</u> [<u>ठ]</u>]-[<u>5]</u> <u>3</u>]-[<u>8</u>]]] <u>2</u>]
	Employer ID Number
[_]	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
<u>CBI</u>	Name $[D0]0081214151411101M1415101M110101M1P141N1V11111111111111111111111111111111$
[_]	Address $[2]4[6]0[0]$ $[4]A[L]L[w]0[0]D[-]C[D[v]R[T]-]-[-]-[-]-[-]-[-]-[-]-[-]-[-]-[-]-[-$
	[F]A]R]M]]]V]B]T]O]N]]][][][][][]]]]]]]]]]]]]]]]
	[<u>M]</u> <u>工</u>] [<u>4] <u>8</u>] <u>3</u>] <u>3</u>] <u>7</u>] [<u>4] 5</u>] <u>5</u>] <u>8</u>]</u>
	Dun & Bradstreet Number
1.12	Technical Contact
<u>CBI</u>	Name $[R]A]VM[O]VO]$
[_]	Title [C] 6 R P - E N V - S P E C - - - - - - - - -
	Address [P]0]] B 0 1] 2 0 7 8 3 5 1 1 1 1 1 1 1 1 1
	(<u>再</u>]丁]乙] <u>兩</u>] <u>兩]</u> [] <u>—</u>]_]_]_]_]_]_]_]_]_]_]_]]]]]
	[<u>8</u>] <u>A</u>] [<u>3</u>] <u>6</u>][]]][]]]
	Telephone Number $[\underline{\underline{\mathcal{H}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{H}}}}]_{\underline{\underline{\mathcal{O}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}]_{\underline{\underline{\mathcal{O}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\mathcal{O}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]_{\underline{\underline{\mathcal{O}}}}]$
1.13	This reporting year is from
	Mark (X) this box if you attach a continuation sheet.
f1	mark (A) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
<u>CBI</u>	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_][_]]]]_]_]_ State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[]] []]]]]]]]]]]]]
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

1.16	For each classification listed below, state the quantity of the listed was manufactured, imported, or processed at your facility during the	
CBI	Classification	Quantity (kg/yr)
`	Manufactured	NA
	Imported	<i>N</i> Д
	Processed (include quantity repackaged)	201947
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	NA
	For on-site use or processing	NA
	For direct commercial distribution (including export)	NA_
	In storage at the end of the reporting year	NA
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	55357
	Processed as a reactant (chemical producer)	N7
	Processed as a formulation component (mixture producer)	NA
	Processed as an article component (article producer)	201947
	Repackaged (including export)	41.0
	In storage at the end of the reporting year	

[[]_] Mark (X) this box if you attach a continuation sheet.

or a co	Mixture If the listed substance on which you are required to report is a mixture or a component of a mixture, provide the following information for each component chemical. (If the mixture composition is variable, report an average percentage each component chemical for all formulations.)						
- []	Component	NA Supplier Name	Composition (specify	Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%)			
	Name	Haire					
			Total	100%			

2.04	State the quantity of the listed substance that your facility manufactured, imported, or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
CBI	
[_]	Year ending
	Quantity manufactured kg
	Quantity imported
	Quantity processed
	Year ending
	Quantity manufactured
	Quantity imported
	Quantity imported
	Quantity processed
	Year ending
	Quantity manufactured NA kg
	Quantity imported
	quantity imported
	Quantity processed
2.05	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
<u>CBI</u>	NA
[_]	Continuous process 1
	Semicontinuous process
	Batch process 3
[_]	Mark (X) this box if you attach a continuation sheet.

2.06 CBI	Specify the manner in vappropriate process type		he listed substance	. Circle all		
[_]	Continuous process					
	Semicontinuous process					
	Batch process					
2.07 CBI	State your facility's name-plate capacity for manufacturing or processing the listed substance. (If you are a batch manufacturer or batch processor, do not answer this question.)					
[_]				NA kg/yr		
	Manufacturing capacity					
	Processing capacity .		• • • • • • • • • • • • • • • • • • • •	553573 kg/yr		
<u>CBI</u>	manufactured, imported year, estimate the increvolume.	, or processed at any rease or decrease bas Manufacturing	ed upon the reporting	ng year's production Processing		
ι1		Quantity (kg)	Quantity (kg)	Quantity (kg)		
	Amount of increase	NA	NA	<i>NA</i>		
	Amount of decrease	NA	NA	<u>NA</u>		
[_]	Mark (X) this box if you	ou attach a continuat	ion sheet.			

2.09	listed substance	argest volume manufacturing or processing procese, specify the number of days you manufactured of the reporting year. Also specify the average stype was operated. (If only one or two operates	number of h	ours per
<u>CBI</u>			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	NA	<u>NA</u>
		Processed		16_
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	NA	<u>NA</u>
		Processed	<u>NA</u>	NA
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	<u>NA</u>	<u>NA</u>
		Processed	NA_	_NA_
2.10 CBI	State the maxim substance that chemical.	num daily inventory and average monthly inventor was stored on-site during the reporting year in Response Not Required for	flie form o	sted f a bulk
	Maximum daily i	nventory	•	k
	Average monthly	inventory	•	k
[_]	Mark (X) this	oox if you attach a continuation sheet.		

(<u></u>]	etc.).	the product (e.g.,			Source of By-
	CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	products, Co- products, or Impurities
	NONE	LISTED			
					

<u>_</u>]	Mark ((X)	this	box	if	you	attach	а	continuation	sheet.
------------	--------	-----	------	-----	----	-----	--------	---	--------------	--------

L1	a. Product Types	b. % of Quantity Manufactured, Imported, or Processed	c. % of Quantity Used Captivel On-Site	
	B	100 %		
	1 Use the following codes A = Solvent B = Synthetic reactant C = Catalyst/Initiator/ Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant/ G = Cleanser/Detergent/ H = Lubricant/Friction agent I = Surfactant/Emulsifi J = Flame retardant K = Coating/Binder/Adhe 2 Use the following codes I = Industrial CM = Commercial	Accelerator/ r/Scavenger/ Sequestrant Degreaser modifier/Antiwear er sive and additives to designate the CS = Cons	L = Moldable/Cast M = Plasticizer N = Dye/Pigment/C 0 = Photographic/ and additives P = Electrodeposi Q = Fuel and fuel R = Explosive che S = Fragrance/Fla T = Pollution con U = Functional fl V = Metal alloy a W = Rheological m X = Other (specif	tion/Plating chemicals additives micals and additives vor chemicals trol chemicals uids and additives and additives and additives and ifier y)

]	substance used during the used captively on-site as types of end-users for ea explanation and an example	a percentage of ch product type.	the value liste	d under o	column b., and the			
	a.	b.	c.		d.			
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quant Used Capti On-Sit	vely	Type of End-User			
	B	100 %	100	%				
								
	<pre>1 Use the following codes A = Solvent B = Synthetic reactant C = Catalyst/Initiator/A</pre>	ccelerator/ /Scavenger/ equestrant egreaser odifier/Antiwear	L = Moldable/O M = Plasticize N = Dye/Pigmen O = Photograph and additi P = Electrodep Q = Fuel and f R = Explosive S = Fragrance/ T = Pollution U = Functional V = Metal allo W = Rheologica	r t/Colorar ic/Reprog ves osition/F uel addit chemicals Flavor ch control c fluids a y and add l modifie	s and additives nemicals chemicals and additives litives			
	J = Flame retardant V Costing/Rindom/Adhog	<pre>K = Coating/Binder/Adhesive and additives X = Other (specify)</pre> <pre> 2Use the following codes to designate the type of end-users:</pre>						
	<pre>K = Coating/Binder/Adhes</pre>		type of end-use	rs:				

	a.	b.	c. Average % Composition of	d.			
Product Type ¹ Physica		l Product's ical Form²	Listed Substance in Final Product	Type of End-Users ³			
		NA	<i>NA</i>	NA			
	the following codes to	designate pr		le/Rubber and addit:			
	= Synthetic reactant = Catalyst/Initiator/Acc	elerator/	<pre>M = Plasticizer N = Dye/Pigment/Col O</pre>	orant/Ink and additi			
n	Sensitizer - Inhibitor/Stabilizer/S	aavangar/	<pre>0 = Photographic/Re and additives</pre>	prographic chemical			
ν =	Antioxidant	cavenger/	P = Electrodepositi	on/Plating chemical			
F -	Analytical reagent		Q = Fuel and fuel a				
F -	Chelator/Coagulant/Seq	uestrant	R = Explosive chemi				
	Cleanser/Detergent/Deg		S = Fragrance/Flavo	r chemicals			
H =	Lubricant/Friction mod	ifier/Antiwea					
••	agent		U = Functional flui	ds and additives			
I =	Surfactant/Emulsifier		V = Metal alloy and	additives			
_	Flame retardant		W = Rheological mod	ifier			
K =	Coating/Binder/Adhesiv	e and additiv					
²Use	e the following codes to	-		ical form:			
	= Gas		ystalline solid				
	: Liquid	F3 = Gr					
	Aqueous solution		her solid				
	= Paste	G = Ge	her (specify)				
	= Slurry = Powder	n = Ot	mer (specify)				
³Use	³ Use the following codes to designate the type of end-users:						
I	= Industrial	CS = Co					
CM	= Commercial	H = Ot	her (specify)				
Oli							

2.15	Circl	le all applicable modes of transportation used to deliver bulk shipments of	the
CBI	liste	ed substance to off-site customers.	
[_]	Truck	[. 1
	Railc	ear	. 2
	Barge	e, Vessel	3
	Pipel	line	4
	Plane	· · · · · · · · · · · · · · · · · · ·	5
	0ther	(specify)	6
2.16 <u>CBI</u> []	or pr of en	omer Use Estimate the quantity of the listed substance <u>used by your customers</u> during the reporting year for use under each categories duse listed (i-iv). NH gory of End Use	<u>mers</u> gory
	i.	Industrial Products	
		Chemical or mixture	kg/yr
		Article	
	ii.	Commercial Products	
			kg/yr
			kg/yr
	iii.	Consumer Products	
		Chemical or mixture	kg/yr
			kg/yr
	iv.	Other	
		Distribution (excluding export)	kg/yr
		Export	kg/yı
		Quantity of substance consumed as reactant	kg/yr
			kg/yı
		Ulknown customer uses	
[_]	Mark	(X) this box if you attach a continuation sheet.	

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

PART	A GENERAL DATA		
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	les are treated as	purcnases.
[_]	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	NA	NA
	The listed substance was transferred from a different company site.	NA	NA
	The listed substance was purchased directly from a manufacturer or importer.	201947	2.30
	The listed substance was purchased from a distributor or repackager.	NA	NA
	The listed substance was purchased from a mixture producer.	NA.	NA
3.02 CBI	Circle all applicable modes of transportation used to your facility.	o deliver the list	ed substance to
[_]	Truck		
	Railcar		Q
	Barge, Vessel		3
	Pipeline		4
	Plane		
	Other (specify)		6
[_]	Mark (X) this box if you attach a continuation sheet	•	

3.03 CBI	а.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums
		Pipeline 9
		Other (specify)10
	ь.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders mmHg
		Tank rail cars mmHg
		Tank trucks mmHg
<u> </u>	Ma	rk (X) this box if you attach a continuation sheet.

3.04 <u>CBI</u> [_]	of the mixture, the na average percent compos amount of mixture proc	ume of its supplier(s sition by weight of t		imate of the
	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)

.05 BI	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, and the percent composition, by weight, of the listed substance.						
_,		Quantity Used (kg/yr)	% Composition by Weight of Listed Sub- stance in Raw Material (specify <u>t</u> % precision				
	Class I chemical	201947	100 %				
	Class II chemical	N FI	NA				
	Polymer	<i>NA</i>	NA				

	SEC	TION 4 PHYSICAL/CHEMI	CAL PROPERTIES				
Gener	al Instructions:						
If yo 4 tha	u are reporting on a mix t are inappropriate to m	ture as defined in the ixtures by stating "N	e glossary, reply to qu A mixture."	uestions in Section			
notic	uestions 4.06-4.15, if yoe that addresses the infinite mile in lieu of answering	ormation requested, yo	ou may submit a copy o	oel, MSDS, or other r reasonable			
PART	A PHYSICAL/CHEMICAL DAT	A SUMMARY					
4.01 <u>CBI</u> [_]	Specify the percent pur substance as it is manu substance in the final import the substance, o	factured, imported, or product form for manus r at the point you be	r processed. Measure (facturing activities, agin to process the subs	the purity of the at the time you stance.			
·		Manufacture	Import	Process			
	Technical grade #1						
	Technical grade #2	<u>NЯ</u> % purity		NA% purity			
	Technical grade #3	NA % purity	NA % purity	NA % purity			
	¹ Major = Greatest quant	ity of listed substan	ce manufactured, impor	ted or processed.			
4.02	Submit your most recently updated Material Safety Data Sheet (MSDS) for the listed substance, and for every formulation containing the listed substance. If you possess an MSDS that you developed and an MSDS developed by a different source, submit your version. Indicate whether at least one MSDS has been submitted by circling the appropriate response.						
	Yes			1			
	No		• • • • • • • • • • • • • • • • • • • •	2			
	Indicate whether the MS	DS was developed by y	our company or by a di	fferent source.			
	Your company		• • • • • • • • • • • • • • • • • • • •	1			
	Another source						

[X] Mark (X) this box if you attach a continuation sheet. NSOS ATTACHED



PRODUCT MUMADED, ESERGA

PRODUCT NUMBER: 685624 LUPRANAT	E* T80 "PRE	LIMINARY	
	SECTION		*Registered Trademark
TRADE NAME: "LUPRANATE + TRO "PRELI	MINARY		
CHEMICAL NAME: Toluene Dijsocyanat	•	**************************************	
SYNONYMS: TDI; Tolylens Difsocyan	ate FORM	IULA: C	H(3)C(8)H(3) (NC0)2
CHEMICAL FAMILY: Aromatic Isocyanate	5	•	MOL. WGT.: 174.18
SECTION	vII - INGF	EDIEN	TS
COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
LUPRANATE: T80		100	Not established
2,4 Tolumne Difsocyanate	B84-84-8	80	0.005 ppm ACGIH, 1883 The DSHA P.E.L. (s 0.02 ppm Ceiling
2,6 Toluene Diisocyanate	91-08-7	20	-
	,		
SECTION I		1	- First Wash be per manifestation to a deposition
BOILING/MELTING POINT 6780 mm Hg: 484 F	/ N/A	pH: N/	
VAPOR PRESSURE mm Hg @20 C: .01 SPECIFIC GRAVITY OR BULK DENSITY: 1,2		1	Pansity (Air=1): 6.0
SOLUBILITY IN WATER: Water Reacts		Freezi	ng Peint: 81.8-53.6 F
	ODOR: Pungent		INTERSITY: Strong
SECTION IV - FIRE A		SION	
FLASH POINT (TEST METHOD): 270 F TA	G Dp=n Cup	<u> </u>	AUTOIGNITION TEMP: N/A
FLAMMABILITY LIMITS IN AIR (% BY VOL)	LOWER: 0.8	%	UFFER: 9.8%
EXTINGUISHING Use water fog, for MEDIUM	m or CO2 exting	uishing	media,
SPECIAL Personnel engaged FIREFIGHTING protected against PROCEDURES isocyanate vapors. UNUSUAL FIRE preathing apparatu	nitregen dioxid Firefichters 8 and turnout g	must waa must waa	as Well as r self-contained
AND EXPLOSION Avoid Water contem HAZARDS Areas; carbon diox	ide gas is gene	rated.	
EMERGENC	/ STELEPHO!	ME MU	IMBER

EMERGENCY JELLIHONE NUMBER

CHEMTREC 800-424-9300

201-263-3400

THIS NUMBER IS AVAILABLE DAYS. NIGHTS, WEEKENDS, AND HOLIDAYS

SECTION A " HEVETH DVIV

SXICOL CAL TEST DATA:

2.4 Toluene Dilsocyanate

Rat, Oral LD50 Mouse, Inhalation LC50 RESULT:

Severe eye and skin irritant, sensitizer 5.8 g/kg. 10 ppm/4H

EFFECTS OF OVEREXPOSURE:

Inhalation of the vapors causes severe irritation to lungs, and pulmonary edema can occur after a serious vapor exposure.
Liquid contact causes serious skin and eye burns,
Pulmonary sensitization can occur in some individuals leading to asthma-type spasms of the bronchial tubes and difficulty in breathing.
Preclude from exposure those individuals having a history of respiratory illness, asthmatic conditions, eye damage or TDI sensitization.
Recent studies indicate that overexposure may be associated with chronic lung impairment.
In a National Toxicology Program (NTP) study, TDI was exceineganic when given orally to rate and mice at maximum tolerated domes.
TDI was not carcinogenic to rate in a two-year inhalation study.
Based on the results of the oral study; TDI was included in the NTP Annual Report on Carcinogens.

FIRST AID PROCEDURES:

Eyes--Flush eyes with flowing water for at least 15 minutes

If irritation develops, consult a physician.

Skin--Wash affected skin areas thoroughly with soap and water.
Remove clothing and launder contaminated clothing before
rause. If irritation develops, consult a physician.

Ingestion--If swallowed, dilute with water.
Po NOT induce vomiting.
Never give fluids or induce vomiting if the victim is
unconscious or having convulsions.
Get medical attention immediately.

Inhalation--If inhaled, move to fresh air. Aid in breathing
if necessary, and get medical attention.

SECTION VI - REACTIVITY DATA

STABILITY:

Stable.

AVOID. Avoid temperatures >40 C for extended pariods of time.

CONDITIONS TO AVOID:

Basic compounds, caustic soda, tertiaryamines, water

CHEMICAL INCOMPATIBILITY:

HAZARDOUS DECOMPOSITION PRODUCTS: TOT Vapors, NOX, CO and HCN,

HAZARDOUS POLYMERIZATION:

May occur. Ayold contamination with meisture

CONDITIONS TO AVOID:

and other products that react with isocyanates.

CORROSIVE TO METAL:

140

OXIDIZER: **

SECTION VII - SPECIAL PROTECTION

RESPIRATORY PROTECTION:

Approved respirator for transfarring operations or exceeded, or in Self-contained breathing apparatus if the P.E.L. is exceeded, or in confined areas or if a Teak occurs.

EYE PROTECTION:

Wear fitted goggles or face shield and safety glasses.

PROTECTIVE CLOTHING: Rubber gloves, coveralls, boots and rubber apron which must be cleaned after each use.

VENTILATION:

Use local exhaust wherever vapors are generated.

OTHER:

Maintain work area balow P.E.L.

PAGE 2 OF 4

the said from the contract of the contract of

BILL OF LADING DESCRIPTION Toluene Diisocyanate--Poison 8--UN 2078

UN/NA CODE 2018 190 CC NO. 10 / 31 / 85 UPDATED: 4 / 17 / 88 DATE PREPARED:

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is <u>provided to your customers/users</u> regarding the <u>listed substance</u> or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes
	NoNA
4.04	For each activity that uses the listed substance, circle all the applicable number(s corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for
<u>CBI</u>	manufacturing, storage, disposal and transport activities are determined using the final state of the product.
	Physical State
	Liquified

	rhysical state						
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas		
Manufacture	1	2	3	4	5		
Import	1	2	3	4	5		
Process	1	2	3	4	5		
Store	1	2	3	4	5		
Dispose	1	2	3	4	5		
Transport	1	2	③	4	5		

[__] Mark (X) this box if you attach a continuation sheet.

<u>CBI</u>	particles >10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.								
	Physical		_/\/	A					
	State		Manufacture	<u>Import</u>	Process	Store	Dispose	Transport	
	Dust	<1 micron							
		1 to <5 microns	***************************************						
		5 to <10 microns							
	Powder	<1 micron							
		1 to <5 microns							
		5 to <10 microns	· · · · · · · · · · · · · · · · · · ·						
	Fiber	<1 micron					*************************************		
		1 to <5 microns							
		5 to <10 microns			 				
	Aerosol	<1 micron							
		1 to <5 microns							
		5 to <10 microns					***************************************		

		SECTION 5 ENVIRONMENTAL FATE	
ART A	A R	ATE CONSTANTS AND TRANSFORMATION PRODUCTS	
.01	Ind	icate the rate constants for the following transformation processes. Photolysis: $UNKNOWN$	
		Absorption spectrum coefficient (peak) (1/M cm) at	nm
		Reaction quantum yield, 6 at at	nm
		Direct photolysis rate constant, k_p , at l/hr la	titude
	ъ.	Oxidation constants at 25°C: UNKNOWN For 102 (singlet oxygen), kox	
		For RO ₂ (peroxy radical), k _{ox}	1/M h
	c.	Five-day biochemical oxygen demand, BOD ₅ UNKNOWN	mg/l
	d.	Biotransformation rate constant:	
		For bacterial transformation in water, $k_b \dots \underline{UNKNOWN}$	1/hr
	e.	Hydrolysis rate constants: UNKNOWN	
		For base-promoted process, k _B	1/M h
		For acid-promoted process, k _A	
		For neutral process, k _N	1/hr
	f.	Chemical reduction rate (specify conditions) UNKNOWN	
	g.	Other (such as spontaneous degradation) UNKNOWN	

[_] Mark (X) this box if you attach a continuation sheet.

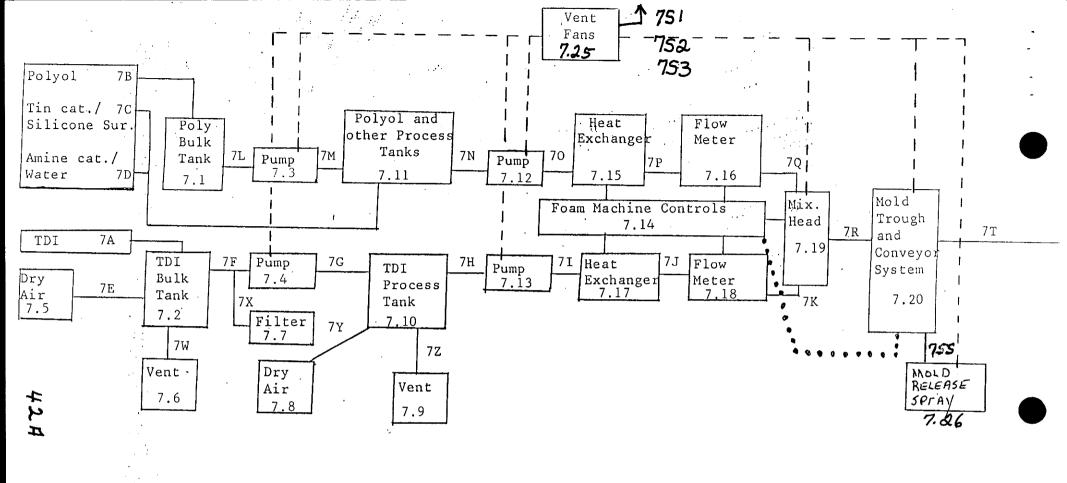
PART	в Р	ARTITION COEFFICIENT	S					
5.02	a.	UNKN		the listed substance in the following media. Half-life (specify units)				
		<u>Media</u>		nu I	TITE (SPECI		•	
		Groundwater			and the second s			
		Atmosphere						
		Surface water						
		Soil					ALMOS .	
	b.	Identify the listed life greater than 2	substance's kno 4 hours.	wn transformat	ion product	s that ha	ve a half-	
					f-life		Media	
		CAS No.	Name	<u>(spec</u>	ify units)	in	neula	
		UNKNO	1) h /					
			~ <u>N</u>					
						-		
5.03	Spe	cify the octanol-wat	er partition coe	fficient, K _{ow}	<u>U</u> NK	NDWN	at 25°C	
		hod of calculation o						
5.04	Spe	cify the soil-water	partition coeffi	cient, K _d	UN	KNOWN	/at 25°C	
		l type						
5.05	Spe	ecify the organic car efficient, K _{oc}	bon-water partit	ion	<u>UNK</u>	NowN	at 25°C	
5.06	Spe	ecify the Henry's Law	Constant, H		<u>UNKI</u>	NOWN	atm-m³/mole	
[_]	Mar	k (X) this box if yo	ou attach a conti	nuation sheet.				

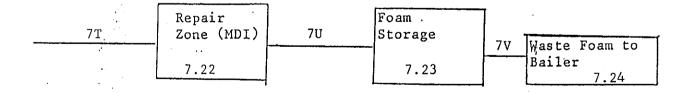
	type of test used in deriving t	Test ¹
Bioconcentration Factor	Species	<u> Test</u>
UNKNOWN		

 $[_]$ Mark (X) this box if you attach a continuation sheet.

[-]	Response Not	Required for	
۱,	Market	Quantity Sold or Transferred (kg/yr)	
	Retail sales		
	Distribution Wholesalers		Library .
	Distribution Retailers		A TANK AND THE STREET OF THE S
	Intra-company transfer		
	Repackagers		****
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
6.05	Substitutes List all known commerce for the listed substance and state the foosible substitute is one which is a	e cost of each substit	ute. A commercially
6.05 <u>CBI</u>	Substitutes List all known commerce for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses.	e cost of each substit conomically and techno	ute. A commercially logically feasible to use
	for the listed substance and state the feasible substitute is one which is earn your current operation, and which	e cost of each substit conomically and techno	ute. A commercially logically feasible to use
	for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses. Substitute	e cost of each substit conomically and techno	ute. A commercially logically feasible to use duct with comparable
	for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses.	e cost of each substit conomically and techno	ute. A commercially logically feasible to use duct with comparable
	for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses. Substitute	e cost of each substit conomically and techno	ute. A commercially logically feasible to use duct with comparable
	for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses. Substitute	e cost of each substit conomically and techno	ute. A commercially logically feasible to use duct with comparable
	for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses. Substitute	e cost of each substit conomically and techno	ute. A commercially logically feasible to use duct with comparable
	for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses. Substitute	e cost of each substit conomically and techno	ute. A commercially logically feasible to use duct with comparable
	for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses. Substitute	e cost of each substit conomically and techno	ute. A commercially logically feasible to use duct with comparable

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION
Instructions:
estions 7.04-7.06, provide a separate response for each process block flow diagram ed in questions 7.01, 7.02, and 7.03. Identify the process type from which the ation is extracted.
MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION
In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.
Process type FLEXIBLE SEATING POLYURETHANE FOAM MANUFACTURING PROCESS.

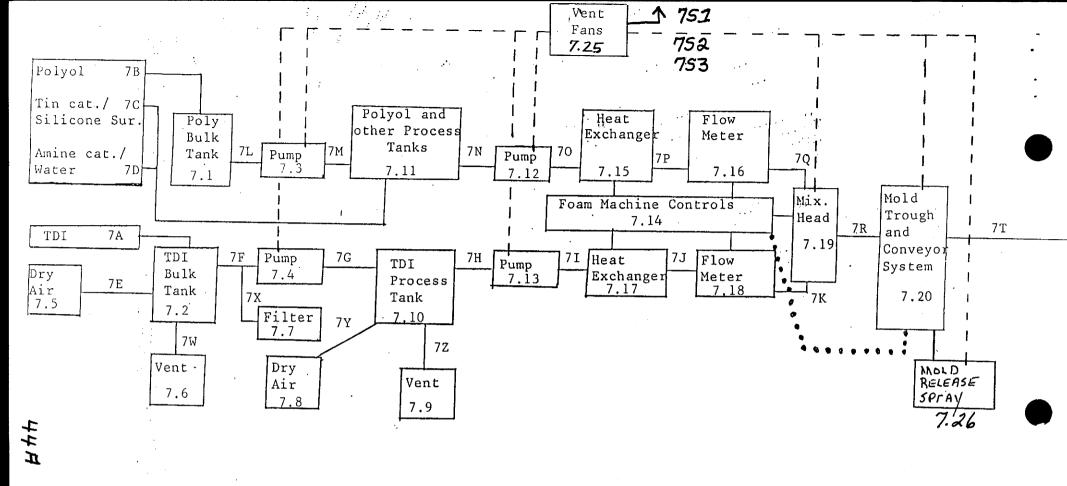


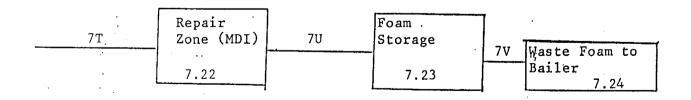


7.01 PROCESS FLOW DIAGRAM

FLEXIBLE SEATING POLYURETHANE FOAM MANUFACTURING PROCESS.

7.03	In accordance with the iprocess emission streams which, if combined, would treated before emission from one process type, pfor question 7.01. If a type, provide a process block.	and emission d total at lea into the envir provide a proce	points that co st 90 percent onment. If al ss block flow ons are releas	ontain the listed sub- of all facility emis: ll such emissions are diagram using the in- sed from more than on-	stance and sions if not released structions e process
CBI	Process type	FLEXIBLE	SEATING	PALVIDRETHANE	FOAM
lJ		MANUFACTI	URING PROC	ESS.	





FLEXIBLE SEATING POLYURETHANE MANUFACTURING PROCESS.

7.03 EMISSIONS

7.4 PUMP SEALS
7.13 PUMP SEALS
7.6 TOI BULK TANK

7.9 PROCESS TANK YENT 7.20 MOLD VENT PLUGS

7.25 AREA VENT FANS

7.04 Describe the typical equipment types for each unit operation identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.

CBI

[-]	Process	type	FLEXIBLE	SEATING	POLYURETHAN	UF	FOAM
			MANUFAC	TURING T	Procéss		

		•		
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
	POLY BULK TANK	AMBIENT	20-520	STEEL
7.2	TDI BULK THNK	AMBIENT	260-520	STEEL
7.3/7.4/7.12/7.13	PUMP	18 - 38	2065-5170	STEEL
7. 5/7.8	DRY AIR	AMBIENT	5170	STEEL
7.6/7.9	VENT	16- 38	103	STEEL
7.10	TOI PROCESS TANK	21-27	10 <u>35 - 15</u> 50	STEEL
7.1/	POLYBL PROCESS TAK	ux 21-27	1035-1550	STEEL
7.14	FOAM MACHINE CONTR	Ws 21-27	260-520	STEEL
7.15 / 7.17	HEAT EXCHANGER	18-27	7750 MAX	STEEL+ AL
7.16 / 7.18	FLOW METER	18-29	5 1,700-155145	STEEL
7.19	MIXING HEAD	21-32	5/700-155,145	STEEL
7.20	MOLD TROUGH ? CONVEYOR	60-70	3100 - 5170	ALUMIUMN+ STEEL
7.25	VENT FANS	AMBIENT	UNKNOWN	STEEL
7.24	FOAM BAKER	AMBIENT	517,149	STEEL

 $^[\ \ \]$ Mark (X) this box if you attach a continuation sheet.

7.05	process block f	rocess stream identified in your low diagram is provided for more mplete it separately for each pro	than one process typ	liagram(s). If a be, photocopy thi
CBI				
[_]	Process type	FLEXIBLE SEATING	POLY URE THANE	FOAM
		MANUFACTURING PRO	C <i>ES</i> S	
	Process Stream			
	ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
ante 7x.	76,7H,7I,7J,		64	201947
•			<u> </u>	375 220
•	M, 7N, 70, 7P,	• ,		5655
	10, 7P, 79	TIN CATALYST / SILICONE SUFF	,	
7D, 7N, 1	70,79,79	AMINE CATALYST / WATER TOI, POLYOL, AMINE CAT /WATE	R OL/AL	23,020
	7R	TIN CAT / SILICONE SUIF		605843
7	T, 7U, 7V	POLYURETHANE FOAM	50	60584Z
	<u> 755 </u>	MOLD RELEASE WAX	OL	16742
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous l OL = Organic l	liquid	nd pressure) and pressure)	
	Mark (X) this b	oox if you attach a continuation	sheet.	

CBI	instructions	and complete it sep for further explanat	ion and an example.)	(Refer to the
[_]	a.	<u>FLEXIBLE</u> b. MANUFAC	TURING PROCE	<u>ση ε γημώς</u> 55 d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7F	TDI	100 %(E)(W)) NA	NA
	<u>7</u>	POLYOL	100%(E)(W)	ACRYLONTA Styrene	200 PPM 400 PPM
	<u> 7R</u>	TDI Polyol	33.3%(E)(W) 61.9%(E)(W)	NA ACRYLONITA STYRENE	NA 25 PI 260 P
	- -	TIN/SILICONE AMINE/WATER	3.8%(E)(W)_	NA	NA NA
7. 06	continued bel	ow POLY ULE THANE FOAM	100%(E)(4	ν) NA	NA

7.06 (continued)

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

NA-	NA-
NA-	NA
NA	NA
NA	NA
NA	NA
	NF-

V = Volume

2

W = Weight

[] Mark (X) this box if you attach a continuation sheet.

E = Engineering judgement/calculation

³Use the following codes to designate how the concentration was measured:

PART A RESIDUAL TREATMENT PROCESS DESCRIPTION 8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01. CBI [] Process type FLEXIBLE SEATING POLYURETHANE FORM MANNEACTURING PROCESS

Flexible Seating Polyurethane
Foam Manufacturing Process

8.1

7W
7Z

Tank Vents
to
Atmosphere

 $[\]$ Mark (X) this box if you attach a continuation sheet.

PART B RESIDUAL GENERATION AND CHARACTERIZATION 8.05 Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process CBI type. (Refer to the instructions for further explanation and an example.) FLEXIBLE POLVU RETHANE Process type SEATING MANUFACTURING f. b. a. g. Physical Estimated Type of Stream State Concentra-0ther Concentions (% or ppm) 4,5,6 ID Hazardous of Expected trations Known Residual2 Compounds³ Code Waste' Compounds (% or ppm) NA 7W UNIC UNK TDI UNK NA 72 Gu UNK TDI DNK ONK NA 75 Gu 20.05 PPM WIK 8.05 continued below Mark (X) this box if you attach a continuation sheet.

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) S0 = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[_] Mark (X) this box if you attach a continuation sheet.

8.05 (continued)

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
	1	<i>NA</i>	NA
	2	NA-	NA NA
	3	NA	NA
	4	NA	NA
	5	NA	NA
	⁴ Use the following code A = Analytical result E = Engineering judgem	es to designate how the concentration ent/calculation	was determined:
3.05	continued below		
	Mark (X) this box if yo	u attach a continuation sheet.	
		56	

8.05	(continued)								
	⁵ Use the following codes to designate how the concentration was measured:								
	<pre>V = Volume W = Weight</pre>								
	⁶ Specify to below. A	he analytical test methods used and their detection limits ssign a code to each test method used and list those codes	in the table in column e.						
	Code	Method	Detection Limit						
	1	ESTIMATE							
	_2								
	3								
	_4								
	_5								
	6								
[_]	Mark (X) th	is box if you attach a continuation sheet.							

[_]	Process a.	b.	MANU C.	BLE SEAT FACTURING	ING PLOG	<u>SCY VRETI</u> CESS	f. Costs for	g.
	Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)		gement dual (%) Off-Site	Off-Site Management (per kg)	Changes in Management Methods
	7w	NA	NA	NA	NA ———	NA	NA	NA
	<u>72</u>	N _I A	NA	NA	NA	NA	NA	NA
	75_	<u>NA</u>	Na			NA	NA	NA
				bit 8-1 to do				

[_]	NA	Ch	Combustion Chamber Temperature (°C)		tion of erature nitor	Residence Time In Combustion Chamber (seconds)		
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary	
	1							
	2	-	 					
	3							
			of Solid Wast ropriate resp		s been submit	ted in lieu	of response	
	Yes		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1	
	No			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	2	
<u>CBI</u>	Complete the sare used on-sitreatment block	ite to burn	the residuals			ess block of	residual	
8.23 <u>CBI</u> [_]	are used on-si	ite to burn	the residuals ram(s). Air Po				residual s of ns Data	
<u>CBI</u>	Incinerator	ite to burn	the residuals ram(s). Air Po	identified		ess block of Types Emission	residual s of ns Data	
CBI	Incinerator 2 Indicate	ite to burn ck flow diag	the residuals ram(s). Air Po	e identified	in your proc	ess block of Types Emission Avail	residual s of ns Data lable	
CBI	Incinerator 2 Indicate by circle	te to burn ck flow diag e if Office ling the app	the residuals ram(s). Air Po Control of Solid Wast ropriate resp	e survey ha	in your proc	Types Emission Avail	r residual s of ns Data lable of response	
CBI	Incinerator 2 Indicate by circly Yes	te to burn ck flow diag e if Office ling the app	the residuals ram(s). Air Po Control of Solid Wast ropriate resp	e survey ha	s been submit	Types Emission Avai	of response	
CBI	Incinerator 2 Indicate by circly Yes	te to burn ck flow diag e if Office ling the app	the residuals ram(s). Air Po Control of Solid Wast ropriate resp	e survey ha	s been submit	Types Emission Avail	of response	

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

[_]	explanation and an example.)	ata are Ma	intained for	: Year in Which	Number of
	Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Records Are Maintained
	Date of hire	X_	X	1988	INDEFINITEL
	Age at hire	X		1988	/NOEFINITELY
	Work history of individual before employment at your facility	NA	NA	. <i>NA</i> .	NA
	Sex	X		1988	NOEF.
	Race	X_		1988	INDEF.
	Job titles	X_	<u> </u>		/NOEF.
	Start date for each job title	X_		<u> 1988</u>	INDEF.
	End date for each job title	X_	_X	1988	INDEF.
	Work area industrial hygiene monitoring data	X	X	1988	NOEF.
	Personal employee monitoring data	_NA	NA	NA	NA
	Employee medical history	X	_X	1988	INDEF
	Employee smoking history	_NA	NA	NA	<u>NA</u>
	Accident history	<u>X</u>	X		_ INDEE.
	Retirement date	X_	X	1988	INPEF.
	Termination date	X_	<u> </u>	1988	INDEF.
	Vital status of retirees	<u>NA</u>	NA	<i>NA</i>	NA
	Cause of death data	NA	NA	NA	NA

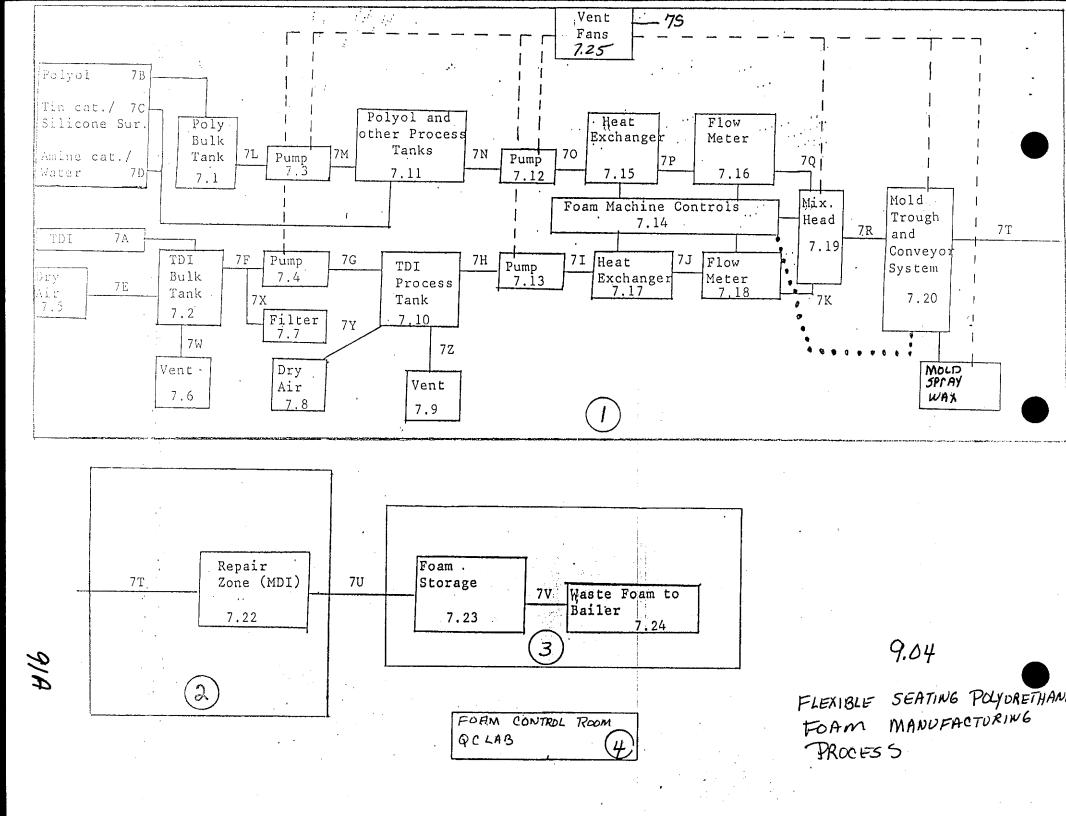
[Mark	(X)	this	box	if	you	attach	а	continuation	sheet
---	------	-----	------	-----	----	-----	--------	---	--------------	-------

9.02 CBI	In accordance with the in which you engage.	instructions, complete t	he following ta	ble for ea	ch activity
[_]	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hours
	Manufacture of the	Enclosed	NA	NA-	NA
	listed substance	Controlled Release	NA_	NA	NA
		0pen	NA_	NA	NA
	On-site use as	Enclosed	NA	NA	NA
	reactant	Controlled Release	201947	<u> 77</u>	3840
		0pen	NA	N.A	<u>N</u> A
	On-site use as	Enclosed	N <u>H</u>	NA	NA
	nonreactant	Controlled Release	N FI_	NA	<u>N A</u>
		0pen	N A	NH	NA
	On-site preparation	Enclosed	N A	NH	N A
	of products	Controlled Release	N	NA	NA
		0pen	N A	NA	NA

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

CBI	encompasses workers listed substance.	s who may potentially come in contact with or be exposed to the
[_]		
	Labor Category	Descriptive Job Title
	A	MANAGEMENT
	В	SU PERVISORS
	С	LINE - LEADERS
	D	PRODUCTION
	E	REPAIR
	F	STORAGE
	G	MAINTEN ANCE
	H	QUALITY CONTROL
	I	
	J	

)4	In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.							
<u>.</u>								
]	Process type	FLEXIBLE	SEATING	POLYURETHANE	FOAM			
		MANU FAC	TURING PR	COCESS.				
		•						



9.05	Describe the various work area(s) shown in question 9.04 that encompass workers who may potentially come in contact with or be exposed to the listed substance. Add any additional areas not shown in the process block flow diagram in question 7.01 or 7.02. Photocopy this question and complete it separately for each process type.
CBI	, topo the question and temperature , , , ,
[_]	Process type FLEXIBLE SEATING POLYURETHANE FOAM MANUFACTURING PROCESS.
	Work Area ID Description of Work Areas and Worker Activities
	• 1 - YUMPING SYSTEMS, FOAM MACHINE CONTROLS, FOAM
	MACHINE CREW OPERAT CONTROLS AND REPAIRS MOLDS
	FOR POURING.
	= 2 - WORKERS REPAIR SMALL HOLES AND TOUCH-UP
	FOAM SEATS WITH M.D.I.
	- WORKERS HANG FOAM SPATS FOR STURAGE AND
	BAIL SCRAP FOAM
	<u> </u>
	RANdom FOAM SCATS. FOAM DEPARTMENT
	MANAGERS OFFICE.

 $[\ \ \]$ Mark (X) this box if you attach a continuation sheet.

9.06 Complete the following table for each work area identified in question 9.05, and for each labor category at your facility that encompasses workers who may potentially come in contact with or be exposed to the listed substance. Photocopy this question and complete it separately for each process type and work area.

Labor Category	Number of Workers Exposed	of Exposure (e.g., direct skin contact)	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number o Days per Year Exposed
P	1	INH ALATION	GU	E	240
B	3	INHALATION	GU	E	240
C	_5	INHALATION	<u>Gu</u>	E	240
D	32	INHALATION	Gu	E	240
G_	6	INHALATION	GU	E	240
	2	INHALATION	GU	D	246

¹Use the following codes to designate the physical state of the listed substance at the point of exposure:

GU = Gas (uncondensible at ambient temperature and pressure; includes fumes, vapors, etc.)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid
(specify phases, e.g.,
90% water, 10% toluene)

A = 15 minutes or less

B = Greater than 15 minutes, but not exceeding 1 hour

C = Greater than one hour, but not exceeding 2 hours D = Greater than 2 hours, but not exceeding 4 hours

E = Greater than 4 hours, but not exceeding 8 hours

F = Greater than 8 hours

Mark (X) this box if you attach a continuation sheet.

93

²Use the following codes to designate average length of exposure per day:

9.06 Complete the following table for each work area identified in question 9.05, and for each labor category at your facility that encompasses workers who may potentially come in contact with or be exposed to the listed substance. Photocopy this question and complete it separately for each process type and work area.

	MA 4	EXIBLE SEATING PUFACTURING Proc		ANE FOAN	1
Work area Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact)	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
_ <i>E</i>	7	INHALATION	GU	E	240
A		INHALATION	Gu	D	240
$_\mathcal{B}_$	3	INHALATION	GU	D	240
C	5	INHALATION	Gu	D	240
<u> </u>	6	INHALATION	Gu		240
	2	INHALATION	_Gu_	C	240

	***************************************			- Walter Control	

¹Use the following codes to designate the physical state of the listed substance at the point of exposure:

- GU = Gas (uncondensible at ambient temperature and pressure; includes fumes, vapors, etc.)
- SO = Solid

- SY = Sludge or slurry
- AL = Aqueous liquid
- OL = Organic liquid
- IL = Immiscible liquid
 (specify phases, e.g.,

90% water, 10% toluene)

- A = 15 minutes or less
- B = Greater than 15 minutes, but not exceeding 1 hour
- C = Greater than one hour, but not exceeding 2 hours
- D = Greater than 2 hours, but not exceeding 4 hours
- E = Greater than 4 hours, but not exceeding 8 hours
- F = Greater than 8 hours

X

Mark (X) this box if you attach a continuation sheet.

²Use the following codes to designate average length of exposure per day:

Complete the following table for each work area identified in question 9.05, and for each labor category at your facility that encompasses workers who may potentially come in contact with or be exposed to the listed substance. Photocopy this question and complete it separately for each process type and work area. CBI Process type FLEXIBLE SEATING POLYURETHANE FOAM MANUFACTURING Process Physical Number of Mode Average State of Length of Days per Number of of Exposure Labor Workers (e.g., direct Listed Exposure Year Substance¹ Exposed skin contact) Per Day Exposed Category INHALATION 240 INHALATION 240 INHALATION C INHALATION INHALATION ¹Use the following codes to designate the physical state of the listed substance at the point of exposure: GC = Gas (condensible at ambient SY = Sludge or slurry AL = Aqueous liquid temperature and pressure) OL = Organic liquid GU = Gas (uncondensible at ambient IL = Immiscible liquid temperature and pressure; includes fumes, vapors, etc.) (specify phases, e.g., 90% water, 10% toluene) SO = Solid²Use the following codes to designate average length of exposure per day: A = 15 minutes or less D = Greater than 2 hours, but not exceeding 4 hours B = Greater than 15 minutes, but not E = Greater than 4 hours, but notexceeding 1 hour C = Greater than one hour, but not exceeding 8 hours F = Greater than 8 hoursexceeding 2 hours

[X] Mark (X) this box if you attach a continuation sheet.

9.06 CBI	each labor come in con	category at you tact with or be	ir facility that	encompasses wo listed substan	ed in question 9 rkers who may po ce. Photocopy t k area.	tentially
[_]	Process type		XIBLE SEATI		ETHANG FOAT	1
	Work area .	Man	UFACTURING	P.r.oc. e.s.s. _	4	
	Labor Category	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	ct Listed	f Length of Exposure	Number of Days per Year Exposed
	A	1	INHALATI	^	D	240
	B	3	INHALATIO	Δ.	b	240
	<u> </u>	5	INHALATIO			240
		2	INHALATIC		D	240
						_
	while is now a grown than I while I then been commonweal			alahada ke adalah selagan jahan sebagai ke dalah selagai ke dalah selagai ke dalah selagai ke dalah selagai ke	***************************************	mare who should be a south of the should be a should b

				· · · · · · · · · · · · · · · · · · ·		_
	the point of GC = Gas temporal control	of exposure: (condensible at erature and precure and precure and precure and precudes fumes, vap	ambient essure) at ambient essure; eors, etc.)	SY = Sludge o AL = Aqueous OL = Organic IL = Immiscib (specify 90% wate	liquid liquid	
	B = Greate: exceed: C = Greate:	t than 15 minuting 1 hour than one hour ing 2 hours		exceeding	4 hours han 4 hours, but 8 hours	

Process type	FLEXIBLE SEATING POLYU MANUFACTURING PROCESS	
Work area		
Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Le (ppm, mg/m³, other-specif
A	5 PPB	20 PPB
B	5PPB	20 PPB
С	5PPB	20 PPB
D	5PPB	20 PPB
G	<u> 5PPB</u>	20 PPB
H	<u> 59913</u>	20 PPB

	MANUFACTURING PROCESS	
		2
Labor Category H B C E G J+	8-hour TWA Exposure Level (ppm, mg/m³, other-specify) 0-3 ppb 0-3 ppb 0-3 ppb 0-3 ppb 0-3 ppb 0-3 ppb	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify) 20 PPB 20 PPB 20 PPB 20 PPB 20 PPB 20 PPB
	# B C	A O-3 ρρb B O-3 ρρb C O-3 ρρb

9.07	Weighted Average (egory represented in question 9.06 TWA) exposure levels and the 15-min stion and complete it separately for	nute peak exposure levels.
CBI	Process type	FLEXIBLE SEATING POLYU. MANUFACTURING PROCESS	
· *			3
	H B C F G	8-hour TWA Exposure Level (ppm, mg/m³, other-specify) O-1 PPB O-1 PPB O-1 PPB O-1 PPB O-1 PPB	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify) 20 PPB 20 PPB 20 PPB 20 PPB 20 PPB

9.07	Weighted Average (egory represented in question 9.06, TWA) exposure levels and the 15-min stion and complete it separately for	nute peak exposure levels.
CBI		ELEXIDLE SCATING DOLLIN	Description of the second
,,	Dwagga tung	PLEXIBLE SEATING POLYU	
ı J	riocess type	MANUFACTURING PROCES	
	Work area		<u> </u>
		8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Pęak Exposure Level
	Labor Category	(ppm, mg/m³, other-specify)	(ppm, mg/m³, other-specify)
	\mathcal{A}	2 PPB	20 PPB
	B	2 PPB	20 PPB
	\overline{C}	2 PPB	20 PB
	17	2 PPB	20 PPB

9.08 <u>CBI</u>	If you monitor works	exposur	e to the 11s	sted Substan	nce, compi	icte the ro	itiowing tubic.
[_]	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Records Maintained
	Personal breathing zone	NA					NA
	General work area (air)		CONTINUOUS	EVERY 15 MIN	D	<u>y</u>	INDEF.
	Wipe samples	NA	4				→ NA
	Adhesive patches	<u>NA</u>	4				-> NA
	Blood samples	NA_					-> NA
	Urine samples	_NA					-> NA
	Respiratory samples	_NA					>NA
	Allergy tests	<i>NA</i> _					-> NA
	Other (specify)	NA			17.1		> NA
	Other (specify)						
	Other (specify)						
	¹ Use the following of A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	l hygieni er	st .			g samples:	

[_] Mark (X) this box if you attach a continuation sheet.

[_]	Sample Type	Sa	mpling and Analyt	ical Methodol	ogy
	General WORK ARE	A AIR SAMPLE	pulled thru	whe VA	POR REACTS
		with test	PAPER - U	NIT BIVES	DIGITIAL
		Read OUT	•		
9.10	If you conduct perso				substance,
CBI	specify the following	g information for ea	ach equipment type	e used.	
 []	Equipment Type ¹	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Number
·—,	E	.061 A	MDA	8	7100
	<u> </u>	.001 A	M DA	 •25	TLD-1
			Ννπ	•as	
					-
	¹ Use the following co	odes to designate pe	ersonal air monito	oring equipmen	it types:
	A = Passive dosimete B = Detector tube	er			
	<pre>C = Charcoal filtra D = Other (specify)</pre>				
	Use the following co		nbient air monitor	ing equipment	types:
	E = Stationary monit F = Stationary monit				
	G = Stationary monit	tors located at plan	it boundary	7.5 1	/14// - T
	<pre>H = Mobile monitorir I = Other (specify)</pre>	ng equipment (specif	y) YOFT HBLE	ILD- L	UNIT
	² Use the following co	odes to designate de	tection limit uni	ts:	
	A = ppm B = Fibers/cubic cer	ntimeter (f/cc)			
	C = Micrograms/cubic	meter (μ/m^3)			

<u>CBI</u>		NA	
[_]	Test Description	•	Frequency (weekly, monthly, yearly, etc.)
		<u>. </u>	
		· · · · · · · · · · · · · · · · · · ·	

12	Describe the engineering corto the listed substance. Process type and work area.				
I		FLEXIBLE	SEATING PO	LYURETHANG	FOAM
_]	Process type	MANUFAC	TURING Pro	ocess	
	Work area	• • • • • • • • • • • • • • • • • • • •			
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	<u>y</u>	1988	N	
	General dilution	<u> </u>	1988	<i>N</i>	
	Other (specify)	,			
	Vessel emission controls	<u>y</u>	1988	N	
	Mechanical loading or packaging equipment	<i>y</i>	1988	V	

to the	be the engineering con listed substance. Plus type and work area.				
		FLEXIBLE	SEATING PO	LYURETHANE	FOAM
Proces	s type	. MHNUFAC	TURING Pro	cess	
Work a	rea			<i>2</i>	
Engine	ering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
Ventil	ation:				
Loc	al exhaust	<u> </u>	1988	N	· •
Gen	eral dilution	<u> </u>	1988	N	
Oth	er (specify)	,			
Vessel	emission controls	<i>N</i>			
	ical loading or aging equipment	<i>N</i>			
Other	(specify)				

[太]	Mark	(X)	this	box	if	you	attach	а	continuation	sheet.
-----	------	-----	------	-----	----	-----	--------	---	--------------	--------

2	Describe the engineering cont to the listed substance. Pho process type and <u>work area</u> .				
		FLEXIBLE	SEATING PO	LYURETHANG	FOAM
	Process type			•	· ·
	Work area			··· <u>उ</u>	?
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	<u>y</u>	1988	N	
	General dilution	/N			
	Other (specify)				
	Mar Market day of the control of the				
	Vessel emission controls	N			
	Mechanical loading or packaging equipment	N			

9.12 CBI	Describe the engineering conto the listed substance. Please type and work area.	notocopy this o	question and comp	lete it separat	ely for <u>eac</u> h
[]	Process type	FLEXIBLE MHNUFAC	SEATING POL	YURETNANG CESS	FOAM
	Work area		·	4	
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	<u>y</u>	1988	<i>N</i>	
	General dilution	<u> </u>		N	
	Other (specify)	/			
	Vessel emission controls	N			
	Mechanical loading or packaging equipment	N			
	Other (specify)				

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

<u>r</u> _]	rocess type reach process type and work area FLEXIBLE SEATING POLYL Process type PROCESS	RETHANG FOAM
	Work area	Reduction in Worker
	Equipment or Process Modification	Exposure Per Year (%)
	NA NA	
		·
		·

			cess type and SEATING	POLYUR	eth and	FOAM	
] Proces	Process type MANUFACTURING PROCESS						
Work a	irea		• • • • • • • • • • • • • • • •		2		
	Equipment o	or Process Mod	ification		Reduction Exposure Pe		
	NA	_			-		

					··		
						4	

<u>.</u> 	FLEXIBLE SEATING POLYU	
]	Process type MANUFACTURING PROCESS	3
	Work area	
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%
	<i>NH</i>	-
	•	

αрт	prior to the reporting year that have resulted in a the listed substance. For each equipment or proces the percentage reduction in exposure that resulted complete it separately for each process type and we	ss modifi . Photoc ork area.	cation des	scribed, state question and
CBI	FLEXIBLE SEATING		eth and	FOAM
[_]	Process type MANUFACTURING PRO	ocess		
	Work area		4	
	Equipment or Process Modification			on in Worker Per Year (%)
			٠	
				· .
	Mark (X) this box if you attach a continuation shee	:t.		

PART	D PERSONAL PROTECTIVE AND SAFETY EQUIPMENT	
9.14	Describe the personal protective and safety equipment that your win each work area in order to reduce or eliminate their exposure substance. Photocopy this question and complete it separately found work area.	to the <u>listed</u>
<u>CBI</u>	FLEXIBLE SEATING POLYURETHA Process type MANUFACTURING PROCESS	NE FOAM
	Work area	
	Wear or Use Equipment Types (Y/N)	

Equipment Types	(Y/N)
Respirators	<i>N</i>
Safety goggles/glasses	<u>y</u>
Face shields	/ /
Coveralls	<u>y</u>
Bib aprons	/ /
Chemical-resistant gloves	<u>y</u>
Other (specify)	,
SCBA	<u>y</u>
	/

PART	D PERSONAL PROTECTIV	E AND SAFETY EQUIPMEN	T				
9.14	in each work area in	l protective and safe order to reduce or e y this question and c	liminate	their exposu	re to the	listed	
CBI			م مدس	Dad		FADM	
<u> </u>	_	FLEXIBLE SEA	TING	POLYURE	MANG	FOAM	
J	Process type	. MANUFACTURIN	G PKO	CESS	WWW. L. Land. Williams		
	Work area				•	2	
					٠		
				Wear or			
				Use		•	
		Equipment Types	•	(Y/N)		,	
		Respirators		<u> </u>			
		Safety goggles/glass	es	<u>N</u>			
		Face shields	-	<u> </u>			
		Coveralls	-	N			
		Bib aprons		N			
		Chemical-resistant g	loves	N			
		Other (specify)					

9.14	in each work area :	nal protective and safety equing in order to reduce or eliminatory this question and complete	te their exposure to	the listed
CBI	4	ELEXIBLE SEATING	POLVURETHAN	5 FOAM
[_]	Process type	FLEXIBLE SEATING F	ROCESS	-
	Work area			3
			Wear or	
		Equipment Types	Use (Y/N)	
		ALIANA WAR AND ALIANA AND AND AND AND AND AND AND AND AND	<u> </u>	•
		Respirators		
		Safety goggles/glasses	<u>/Y</u>	
		Face shields	N	
		Coveralls	<u> </u>	
		Bib aprons	N	
		Chemical-resistant gloves	<u> </u>	
		Other (specify)		
			\mathcal{N}	
				

9.14 Describe the personal protective and safety equipment that your workers wear or use in each work area in order to reduce or eliminate their exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area. CBI

Equipment Types	Wear or Use (Y/N)
Respirators	
Safety goggles/glasses	
Face shields	/\/
Coveralls	N
Bib aprons	N
Chemical-resistant gloves	N
Other (specify)	
	_ <i>N</i>

[] Mark (X) this box if you attach a continuation sheet.

<u>CBI</u>	complete it s		= SEATING =ACTURING	POLYUR Proce	2 1 /////	FOAM
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
	A = Daily B = Weekly C = Monthly D = Once a y E = Other (s					
	QL = Qualita QT = Quantit					

PAKI	E WORK PRACTICES			•	
9.19 <u>CBI</u>	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provuestion and complete it s	to the listed suareas with warning ide worker train	ibstance (e.g. ng signs, insu ning programs,	, restrict en are worker det etc.). Phot	ntrance only to tection and tocopy this
[_]		XIBLE SEATING		HANG FOAM	
	Process type MAN				1
	Work area		• • • • • • • • • • • • • • • • • • • •	•••	<u></u>
	AUTOMATIC EXPOSURE PLACARDING	MUNITURING			
	LIMITED Access				•
	TRAINING Program			· ·	
		termination of Architecture (Control of Control of Cont		·	
9.20	Indicate (X) how often you				
9.20	leaks or spills of the lis	sted substance. ss type and work XIBLE SEATIM NOFACTURING	Photocopy thi area.	s question an	nd complete it
9.20	leaks or spills of the lisseparately for each process FLET Process type MA	sted substance. ss type and work XIBLE SEATIM NOFACTURING	Photocopy thi area.	s question an	nd complete it
9.20	leaks or spills of the lisseparately for each process FLET Process type MA Work area	sted substance. ss type and work XIBLE SEATIM NUFACTURING Less Than	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4
9.20	leaks or spills of the lisseparately for each process FLET Process type MA Work area Housekeeping Tasks	sted substance. ss type and work XIBLE SEATIM NUFACTURING Less Than	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4
9.20	leaks or spills of the lisseparately for each process FLET Process type MA Work area Housekeeping Tasks Sweeping	Less Than Once Per Day	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4
9.20	leaks or spills of the lisseparately for each process FLET Process type MA Work area Housekeeping Tasks Sweeping Vacuuming	Less Than Once Per Day	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4
9.20	leaks or spills of the lisseparately for each process FLET. Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4
9.20	leaks or spills of the lisseparately for each process FLET. Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4
9.20	leaks or spills of the lisseparately for each process FLET. Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4
9.20	leaks or spills of the lisseparately for each process FLET. Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4
9.20	leaks or spills of the lisseparately for each process FLET. Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day	Photocopy this area. Polyoff Proces 1-2 Times	s question and FOA S	More Than 4

ART	E WORK PRACTICES				
0.19 BI	Describe all of the work eliminate worker exposure authorized workers, mark monitoring practices, pro question and complete it	e to the listed su areas with warnir ovide worker trair	nbstance (e.g. ng signs, insu ning programs,	, restrict en ure worker det , etc.). Phot	ntrance only to tection and tocopy this
<u>_</u>]		EXIBLE SEATING	·	hane foam	
	Process type MA				2
	TRAINING PROGRA	M			
	The state of the s		And the second s		****
.20	Indicate (X) how often you leaks or spills of the list separately for each proces	isted substance. ess type and work EXIBLE SEATIN	Photocopy thi area. G POLYURE	s question an	nd complete it
.20	leaks or spills of the li	isted substance. ess type and work EXIBLE SEATIN AUVFACTURING	Photocopy this area. POLYURE PROCESS	s question an	ad complete it
. 20	leaks or spills of the liseparately for each process FLLE Process type MA Work area	isted substance. ess type and work EXIBLE SEATIN AUVFACTURING	Photocopy thi area. G POLYURE	s question an	Ann More Than 4
.20	leaks or spills of the liseparately for each process FLE Process type MA Work area	isted substance. ess type and work EXIBLE SEATINALUFACTURING Less Than	Photocopy this area. Photocopy This area. PROCESS 1-2 Times	s question and THANF FOR	Ann More Than 4
.20	leaks or spills of the liseparately for each process FLE Process type MA Work area	isted substance. ess type and work EXIBLE SEATINALUFACTURING Less Than	Photocopy this area. Photocopy This area. PROCESS 1-2 Times	s question and THANF FOR	Ann More Than 4
.20	Process type MA Work area Housekeeping Tasks Sweeping	isted substance. ess type and work EXIBLE SEATINALUFACTURING Less Than	Photocopy this area. Photocopy This area. PROCESS 1-2 Times	s question and THANF FOR	Ann More Than 4
.20	leaks or spills of the list separately for each process FLE Process type MA Work area	isted substance. ess type and work EXIBLE SEATINALUFACTURING Less Than	Photocopy this area. Photocopy This area. PROCESS 1-2 Times	s question and THANF FOR	ad complete it
.20	leaks or spills of the liseparately for each process FLE Process type MA Work area	isted substance. ess type and work EXIBLE SEATINALUFACTURING Less Than	Photocopy this area. Photocopy This area. PROCESS 1-2 Times	s question and THANF FOR	Ann More Than 4
. 20	leaks or spills of the liseparately for each process FLE Process type MA Work area	isted substance. ess type and work EXIBLE SEATINALUFACTURING Less Than	Photocopy this area. Photocopy This area. PROCESS 1-2 Times	s question and THANF FOR	Ann More Than 4
.20	leaks or spills of the liseparately for each process FLE Process type MA Work area	isted substance. ess type and work EXIBLE SEATINALUFACTURING Less Than	Photocopy this area. Photocopy This area. PROCESS 1-2 Times	s question and THANF FOR	Ann More Than 4
.20	leaks or spills of the liseparately for each process FLE Process type MA Work area	isted substance. ess type and work EXIBLE SEATINALUFACTURING Less Than	Photocopy this area. Photocopy This area. PROCESS 1-2 Times	s question and THANF FOR	Ann More Than 4

	E WORK PRACTICES				
0.19 CBI	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provoustion and complete it s	to the listed su areas with warning dide worker train separately for <u>ea</u>	nbstance (e.g. ng signs, instant ning programs, nich process ty	restrict en ure worker det etc.). Photope and work a	ntrance only to tection and tocopy this area.
1	FLE Process type MAN	XIBLE SEATINU NUFACTURING "		hane foam	!
	Work area			• • •	3
	TRAINING PROGRAM	M			
9.20	Indicate (X) how often you leaks or spills of the lis separately for each proces	sted substance.	Photocopy thi	_	-
9.20	leaks or spills of the lisseparately for each process FLE Process type MR	sted substance. ss type and work FX184E SEATIA	Photocopy thi area.	STHANE FO	-Am
.20	leaks or spills of the lisseparately for each process FLE Process type MR	sted substance. ss type and work KIBLE SEATIM NUFACTURING	Photocopy thi area.	FTHANE FO	-Am
.20	leaks or spills of the lisseparately for each process FLE Process type MR Work area	sted substance. ss type and work TX18LE SEATIM NUFACTURING Less Than	Photocopy this area. Polyuke PROCESS 1-2 Times	3-4 Times	More Than 4
.20	leaks or spills of the lisseparately for each process FLE Process type MR Work area Housekeeping Tasks	sted substance. ss type and work TX18LE SEATIM NUFACTURING Less Than	Photocopy this area. Polyuke PROCESS 1-2 Times	3-4 Times	More Than 4
.20	leaks or spills of the lisseparately for each process FLE Process type MA Work area Housekeeping Tasks Sweeping	sted substance. ss type and work TX18LE SEATIM NUFACTURING Less Than	Photocopy this area. Polyuke PROCESS 1-2 Times	3-4 Times	More Than 4
0.20	leaks or spills of the lisseparately for each process FLE Process type MA Work area	sted substance. ss type and work TX18LE SEATIM NUFACTURING Less Than	Photocopy this area. Polyuke PROCESS 1-2 Times	3-4 Times	More Than 4
9.20	leaks or spills of the lisseparately for each process FLE Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work TX18LE SEATIM NUFACTURING Less Than	Photocopy this area. Polyuke PROCESS 1-2 Times	3-4 Times	More Than 4
9.20	leaks or spills of the lisseparately for each process FLE Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work TX18LE SEATIM NUFACTURING Less Than	Photocopy this area. Polyuke PROCESS 1-2 Times	3-4 Times	More Than 4
9.20	leaks or spills of the lisseparately for each process FLE Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work TX18LE SEATIM NUFACTURING Less Than	Photocopy this area. Polyuke PROCESS 1-2 Times	3-4 Times	More Than 4
9.20	leaks or spills of the lisseparately for each process FLE Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work TX18LE SEATIM NUFACTURING Less Than	Photocopy this area. Polyuke PROCESS 1-2 Times	3-4 Times	More Than 4

ART	E WORK PRACTICES				-
. 19 <u>. 31</u>	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provuestion and complete it s	to the listed su areas with warnir vide worker trair	nbstance (e.g. ng signs, insu ning programs,	, restrict en ure worker det , etc.). Phot	ntrance only to tection and tocopy this
_]		XIBLE SEATING		HANE FOAM	1
	Process type MAN Work area				
	TRAINING Progra	m			
			ugokooning ta	ask used to cl	lean un routine
20	Indicate (X) how often you leaks or spills of the list separately for each process PLET Process type MA	sted substance. ss type and work NBLF <i>SEATING</i>	Photocopy thi area. 5 Polyver7	s question and HANE FOA.	nd complete it
20	leaks or spills of the lisseparately for each process Process type MA	sted substance. ss type and work NBLF <i>SEATING</i>	Photocopy thi area. Polyveer PRICES	s question and HANE FOA.	nd complete it
20	leaks or spills of the lisseparately for each process Process type MA Work area Housekeeping Tasks	sted substance. ss type and work NIBLE SEATING NUFACTURING	Photocopy thi area. Polyveer PRICES	s question and HANE FOA.	More Than 4
20	Process type MA Work area Housekeeping Tasks Sweeping	sted substance. ss type and work NIBLE SEATING NUFACTURING Less Than	Photocopy this area. Polyver process 1-2 Times	s question and supplies the supplies of the su	More Than 4
20	leaks or spills of the liss separately for each process PLET Process type MA Work area Housekeeping Tasks Sweeping Vacuuming	sted substance. ss type and work NIBLE SEATING NUFACTURING Less Than	Photocopy this area. Polyver process 1-2 Times	s question and supplies the supplies of the su	More Than 4
20	Process type MA Work area Housekeeping Tasks Sweeping	sted substance. ss type and work NIBLE SEATING NUFACTURING Less Than	Photocopy this area. Polyver process 1-2 Times	s question and supplies the supplies of the su	More Than 4
20	leaks or spills of the liss separately for each process PLET Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work NIBLE SEATING NUFACTURING Less Than	Photocopy this area. Polyver process 1-2 Times	s question and supplies the supplies of the su	More Than 4
20	leaks or spills of the liss separately for each process PLET Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work NIBLE SEATING NUFACTURING Less Than	Photocopy this area. Polyver process 1-2 Times	s question and supplies the supplies of the su	nd complete it
20	leaks or spills of the liss separately for each process PLET Process type MA Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work NIBLE SEATING NUFACTURING Less Than	Photocopy this area. Polyver process 1-2 Times	s question and supplies the supplies of the su	More Than 4

[_]	Mark (X) this box if you attach a continuation sheet.
	Other (specify) 4
	OSHA consultant 3
	Insurance carrier 2
	Plant safety specialist 1
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response. Response Not Required
	No 2
	Yes
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	If yes, where are copies of the plan maintained? AND FOAM CONTROL ROOM
	Yes
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	n l with a last and saill alconomalon that addresses the listed
	Emergency exposure:
	Routine exposure:
	If yes, where are copies of the plan maintained?
	No 2
	Yes 1
	Emergency exposure
	No 2
	Yes 1
	Routine exposure Response Not Required FOR TOI
9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area
	Residential area
	Agricultural area
	Rural area
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway
	Other (specify)

	Specify the exact location of your is located) in terms of latitude a (UTM) coordinates.			
	Latitude		<u> 39 · 3</u>	2,04"
	Longitude	····· _	76 · 0	6,40"
	UTM coordinates Zone	, Northi	ng, Eas	sting
10.03	If you monitor meteorological condition following information.	litions in the vicini 1A - Response		
	Average annual precipitation			inches/year
	Predominant wind direction			
10.04	Indicate the depth to groundwater Depth to groundwater		FUK I ULL	wot Required
10.05	For each on-site activity listed, listed substance to the environment			
CDI	Y, N, and NA.)			
<u>CBI</u>	On-Site Activity	Envi Air	ronmental Releas Water	se Land
	On-Site Activity	NA NA		
	On-Site Activity Manufacturing	Air	Water	Land
	On-Site Activity Manufacturing Importing	NA NA VA		Land
	On-Site Activity Manufacturing Importing Processing	NA NA		Land
	On-Site Activity Manufacturing Importing Processing Otherwise used	NA NA VA	NA- NA- NA- NA- NA-	Land NA NA NA
	On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage	NA NA VA NA NA	NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-N	Land NA NA NA NA

10.06 CBI	Provide the following information for the listed sub of precision for each item. (Refer to the instruction example.)	nstance and specions for further	cify the level r explanation and
[_]	Quantity discharged to the air	1.72	kg/yr ± <u>UNK</u> %
	Quantity discharged in wastewaters	NA	kg/yr ± %
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr ± %
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u> %

[_] Mark (X) this box if you attach a continuation sheet.

10.08 CBI	for each process structure process block or resumed and complete it separately	technologies used to minimize release of eam containing the listed substance as ideal treatment block flow diagram(s). It rately for each process type. FLEXIBLE SEATING POLYURETH	dentified in your Photocopy this question
[_]	Process type		10/1/1
	Stream ID Code	MANUFACTURING PROCESS. Control Technology	Percent Efficiency
			
	NOTE: DO_	NOT USE ANY CONTROL 7	TECHNOLOGIES.
			·

PART E	RELEASE TO) AIR					
10.09 <u>CBI</u> [_]	substance i residual tr source. Do sources (e. for each pr	n terms of a Streatment block for not include rag., equipment locess type.	ream ID low dia w mater eaks).	y each emission Code as identi- gram(s), and pro- ial and product Photocopy this	fied in yo ovide a de storage v question	our process blescription of vents, or fugi and complete	lock or each point tive emission it separately
	Point Source ID Code	MAN	UFAC	SEATING PO TURING PRO Description		ssion Point So	
	751		8	OVER HEAD	Roof	EXHAUST	FANS
	752			OVERHEAD	Roof	EXHAUST	FANS
	<u>753</u>			OVER HEAD	-		
					<u> </u>		
[_]	Mark (X) thi	s box if you at	tach a	continuation she	et.	• ,	

Mark (X)

this

box if

10.10	Emissio	on Character Dy completin	istics — — Ch g the followin	aracterize the	emissions f	or each Point	Source ID Coo	de identified	in question
<u>CBI</u>	Point Source ID Code	Physical State	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor ⁴	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Maximum Emission Rate Duration (min/event)
751,752	7 <u>53</u>	<u>G</u>	.018	100	960	<u>.0000089</u>	.000025	שאט	
							-		
			-						
				7.00	-		****		
					-				
				*		994			

						-			
	 ¹ Use th G = Ga	e following s; V = Vapor	codes to desi	gnate physica llate; A = Aer	 l state at th osol; 0 = Oth	ne point of rel ner (specify)	lease:		
	² Freque	ncy of emiss	sion at any le	evel of emission	on.			_	
	³ Durati	on of emissi	ion at any lev	vel of emission	n				
	⁴ Average produc	e Emission H tion of list	Pactor — Prov red substance)	ride estimated	(± 25 percer	it) emission fa	ctor (kg of	emission per l	g of

]	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C) 38-48	Emission Exit Velocity (m/sec)	Building Height(m) ¹	Building Width(m)	Vent Type
	75a	91	0.91	38-48	14.4	NA	NA	<u> </u>
	753	9.1	0.9)	38-48	14.4	NA	NA	V
	¹ Height o	f attached	or adjacent	building				

10.12 <u>CBI</u>	If the listed substance is emitted in particulate form, indicate the particle s distribution for each Point Source ID Code identified in question 10.09. Photocopy this question and complete it separately for each emission point sour								
[_]	Point source ID code								
	Size Range (microns)	Mass Fraction (% \pm % precision)							
	< 1								
	≥ 1 to < 10								
	≥ 10 to < 30								
	≥ 30 to < 50								
	≥ 50 to < 100								
	≥ 100 to < 500								
	≥ 500								
		Total = 100%							

PART C FUGITIVE EMISSIONS 10.13 Equipment Leaks -- Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type. FLEXIBLE SEATING POLYPRETHANE FOAM CBI Process type MANUFACTURING PROCESS Percentage of time per year that the listed substance is exposed to this process Number of Components in Service by Weight Percent of Listed Substance in Process Stream Less Greater Equipment Type 76-99% than 99% than 5% 5-10% 11-25% 26-75% Pump seals1 Packed Mechanical Double mechanical² Compressor seals¹ Flanges **Valves** Gas³ Liquid Pressure relief devices (Gas or vapor only) Sample connections Gas Liquid Open-ended lines⁵ (e.g., purge, vent) Gas Liquid List the number of pump and compressor seals, rather than the number of pumps or compressors 10.13 continued on next page Mark (X) this box if you attach a continuation sheet.

10.13	(continued)									
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicat with a "B" and/or an "S", respectively									
	³ Conditions existing in the valve during normal operation									
	⁴ Report all pressure relief devices in service, including those equipped with control devices									
	⁵ Lines closed during normal operation that would be used during maintenance operations									
10.14 CBI	Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.									
lJ	a.	b. Percent Chemiçal	c.	d. Estimated						
	Number of Pressure Relief Devices	in Vessel	Control Device	7						
	<i>3</i>	799%	NONE	NA						
		·								
			AMERICA STATE OF THE STATE OF T							
	Refer to the table in question heading entitled "Number of Substance" (e.g., <5%, 5-	of Components in Serv	rd the percent ran vice by Weight Per	ge given under the cent of Listed						
	² The EPA assigns a control with rupture discs under efficiency of 98 percent conditions	normal operating cond	ditions. The EPA	assigns a control						
[_]	Mark (X) this box if you a	ttach a continuation	sheet.							

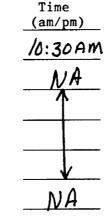
	NH_		• -	e Seating	•
Process type			FOAM	MANUFACTU	PRING PR
	Leak Detection Concentration (ppm or mg/m³) Measured at Inches	- Detection	Frequency of Leak		
Equipment Type	from Source	Device		detection)	
Pump seals					
Packed					
Mechanical					
Double mechanical					
Compressor seals					
Flanges					
Valves					
Gas					
Liquid					
Pressure relief devices (gas or vapor only)					
Sample connections					
Gas					
Liquid					
Open-ended lines					
Gas					
Liquid		######################################			
¹ Use the following c POVA = Portable org FPM = Fixed point m O = Other (specify)	anic vapor analyze onitoring	r			

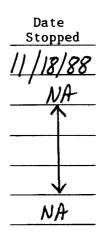
_	or resi	idual trea		ediate, and p flow diagram	ı(s).				Operat-					
	Vessel Type ¹		Composition of Stored Materials	Throughput (liters per year)	Vessel Filling Rate (gpm)	Vessel Filling Duration (min)	Vessel Inner Diameter (m)		ing Vessel Volume E		Design Flow Rate	Vent Diameter (cm)	Control Efficiency (%)	Basis for Estimate
P	(5BI)	NA	100%	/68,533	80	120	3.66	5.18	45,425	NE	_NA	7.62	NA	NA
PC	5P5I)	NA	100%	168,533	80	60	_		24712		NA	7.62	NA.	NA
P(2015]	NA	100%	168,533	50	10			3,785	NA	NA	.9525	NA	NA
	·			,					,					
					_						· 			
					-			·						
				·				·						
			ing codes to	desimate ve			2 Ilso		lloring o				r roof seal	
			•	designate ve	ssel typ	e:			_		_	te floatin	g roof seal	 s:
	F :	= Fixed r	•	•	ssel typ	e:	MS1	= Med	ollowing of the mounted	shoe, pri	mary	te floating	g roof seal	 s:
	F : CIF : NCIF :	= Fixed re = Contact = Nonconta	oof internal fl act internal	oating roof floating roo	••	e:	MS1 MS2 MS2	= Mec = Sho R = Rim	hanical s e-mounted mounted,	shoe, pri l seconda seconda	mary ry ry			s:
	F = CIF = NCIF = EFR =	= Fixed re = Contact = Noncontact = Externa	oof internal fl act internal l floating r	oating roof floating roo oof	of		MS1 MS2 MS2 1M1	= Med = Sho R = Rim = Liq	chanical s be-mounted, puid-mount	shoe, pri l seconda seconda ted resil	mary ry ry	te floating		s:
	F = CIF = NCIF = EFR = P	= Fixed re = Contact = Noncontact = Externa	oof internal flact internal l floating r e vessel (in	oating roof floating roo	of		MS1 MS2 MS2 1M1 LM2	= Mec = Sho R = Rim = Liq = Rim	hanical s e-mounted mounted,	shoe, pri l seconda seconda ted resil shield	mary ry ry			s:
	F = CIF = NCIF = EFR = P = H	= Fixed ro = Contact = Nonconta = Externa = Pressure	oof internal flact internal l floating r e vessel (in	oating roof floating roo oof	of		MS1 MS2 MS2 LM1 LM2 LMW VM1	= Mec = Sho R = Rim = Liq = Rim = Wea = Vap	chanical spermounted, puid-mounted, mounted mounted ther shie	shoe, pri l seconda seconda ted resil shield eld ed resili	mary ary ient fil		primary	s:
	F = CIF = NCIF = EFR = P = H	= Fixed re = Contact = Nonconta = Externa = Pressure = Horizon	oof internal flact internal l floating r e vessel (in	oating roof floating roo oof	of		MS1 MS2 MS2 LM1 LM2 LMW VM1 VM2	= Mec = Sho R = Rim = Liq = Rim = Wea = Vap = Rim	chanical s be-mounted, puid-mounted be-mounted or mounted ber mounted	shoe, pri l seconda seconda ed resil shield eld ed resili secondar	mary ary ient fil	lled seal,	primary	s:
	F = CIF = NCIF = EFR = P = H U = E	= Fixed re = Contact = Nonconta = Externa = Pressur = Horizon = Undergre	oof internal flact internal l floating revessel (intal ound	oating roof floating roo oof dicate presso	of ure ratin	g)	MS1 MS2 MS2 LM1 LM2 LMW VM1 VM2 VMW	= Mec = Sho R = Rim = Liq = Rim = Wea = Vap = Vap = Wea	chanical s ne-mounted, nuid-mounted nuid-mounted or mounted number shie	shoe, pri d seconda seconda ted resild shield eld resili secondar	mary ry ient fil ent fill y	lled seal, led seal,	primary primary	s:
	F = CIF = NCIF = EFR = P = U = 1	= Fixed re = Contact = Nonconta = Externa = Pressure = Horizon = Undergreate	oof internal flact internal l floating revessel (in tal ound t percent of	oating roof floating roo oof	of ure ratin	g)	MS1 MS2 MS2 LM1 LM2 LMW VM1 VM2 VMW	= Mec = Sho R = Rim = Liq = Rim = Wea = Vap = Vap = Wea	chanical s ne-mounted, nuid-mounted nuid-mounted or mounted number shie	shoe, pri d seconda seconda ted resild shield eld resili secondar	mary ry ient fil ent fill y	lled seal, led seal,	primary primary	s:
	F CIF S NCIF S EFR S P S U S S Indica 4 Other	= Fixed re = Contact = Nonconta = Externa = Pressure = Horizon = Undergreate weigh ate weigh	oof internal flact internal l floating revessel (intal ound t percent of	oating roof floating roo oof dicate press	of ure ration	g) e. Include	MS1 MS2 MS2 LM1 LM2 LMW VM1 VM2 VMW	= Mec = Sho R = Rim = Liq = Rim = Wea = Vap = Rim = Wea	chanical spe-mounted, puid-mounted ather shies for mounted ther shies the shies corrected ather shies the shies the organical ather shies the organical atheres and the organical atheres are at the organical	shoe, pri d seconda seconda ted resild eld ed resili secondar eld nic conte	mary ry ient fill ent fill y ent in pa	lled seal, led seal,	primary primary	s:
	F : CIF : NCIF : EFR : P : U : S	= Fixed re = Contact = Nonconta = Externa = Pressure = Horizon = Undergreate ate weigh than flow	oof internal flact internal l floating revessel (in tal ound t percent of ating roofs rate the em	coating roof floating roof coof dicate presso the listed s	of ure ration substance ol device	g) e. Include e was desig	MS1 MS2 MS2 LM1 LM2 VM1 VM2 VMW e the tota	= Mec = Sho R = Rim = Liq = Rim = Vap = Rim = Wea l volat	chanical spe-mounted puid-mounted ather shies por mounted ather shies producted ather shies cile organispecify fi	shoe, pri d seconda seconda ted resild eld ed resili secondar eld nic conte	mary ry ient fill ent fill y ent in pa	lled seal, led seal,	primary primary	s:
	F : CIF : NCIF : EFR : P : U : S : U : S : CIF :	= Fixed re = Contact = Nonconta = Externa = Pressure = Horizon = Undergreate ate weigh than flow	oof internal flact internal l floating revessel (in tal ound t percent of ating roofs rate the em	oating roof floating roo oof dicate press	of ure ration substance ol device	g) e. Include e was desig	MS1 MS2 MS2 LM1 LM2 VM1 VM2 VMW e the tota	= Mec = Sho R = Rim = Liq = Rim = Vap = Rim = Wea l volat	chanical spe-mounted puid-mounted ather shies por mounted ather shies producted ather shies cile organispecify fi	shoe, pri d seconda seconda ted resild eld ed resili secondar eld nic conte	mary ry ient fill ent fill y ent in pa	lled seal, led seal,	primary primary	s:

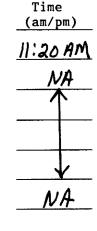
PART E NON-ROUTINE RELEASES

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started
1	11/18/88
2	<u>NA</u>
3	
4	
5	
6	NA







10.24 Specify the weather conditions at the time of each release.

opecity	Response	WAT	Required	for TINF	
Release	Wind Speed	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
1					
2					
3					
4					
5					
6					

[_] Mark (X) this box if you attach a continuation sheet.

APPENDIX I: List of Continuation Sheets

Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

	Continuation Sheet
Question Number (1)	Page Numbers (2)
4.02	₹ 25A,2
7.01	42A
7.03	444
9.04	9/A
9.06	93 144, 244, 344, 44
9.07	94 10 4, 20 4, 3d4, 4 dy
9.12	98 194, 204, 304, 494
9./3	99 1 4 4, 20 4, 30 4, 494
9.14	100 /d/4, 2014, 3014, 4 of 4
9.19	105 10/4, 20/4, 30/4, 40/4
[_] Mark (X) this box if you attach a continuate	on sheet.